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Endemic nephropathy in the villages of Brodska Posavine, Yugoslavia

It is thought that this disease might be due to the effect of a pathogen on food. Mortality records on an annual basis in the area of Brodska Posavine were examined in relation to the rainfall at Kobas, a village where the disease is endemic.

Three factors were selected.

A - the number of illnesses reported the previous year plus half the number reported two years earlier.

B - excess rainfall the previous autumn (over 50 mm in September, 25 mm in October and 10 mm in November).

C - excess rainfall in the current year in late summer and autumn; (over 75 mm in August, 50 mm September and 25 mm in October).

These rainfall limits were selected because they are approximately the evapotranspiration during the month concerned.

Data	Year	Deaths	A	B	C	Forecast	Error
	1958	8	26	69	31	8.51	+0.5
	1959	10	17.5	81	109	10.29	+0.3
	1960	9	16	52	115	9.36	+0.4
	1961	15	32.5	225	9	13.61	-1.4
	1962	12	46	91	0	11.93	-0.1
	1963	16	33.5	118	126	15.28	-0.7
	1964	17	41.5	89	116	15.61	-1.4
	1965	14	37.5	167	70	15.31	+1.3
	1966	12	24.5	196	28	11.90	-0.1
						mean	0.7

The forecast being obtained by a formula: $0.2A + 0.03B + 0.04C$

As soon as the rainfall for 1967, 1968 and 1969 is obtained, this formula will be tested on independent data.

Any comment or criticism on this paper should be referred to the author.

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